22C : 031 (CS : 3310 : 0001) Algorithms
Homework 1

Solve the following exercises from Chapter 2:

• Problem 2 (15 points)
• Problem 3 (15 points)
• Problem 5 (15 points)
• Problem 8(a) (15 points)

The homework is due Thursday, February 3, in class; if you can’t make it to class on that
day, just make sure you get it to me by that time. Our policy on homeworks is reproduced
for your convenience:

No collaboration is allowed on the exams and quizzes. For homework problems, collabor-
oration is alright. We even encourage it, assuming each of you has first spent some time
(about 45 minutes) thinking about the problem yourself. However, no written transcript
(electronic or otherwise) of the collaborative discussion should be taken from the discussion
by any participant. It will be assumed that each of you is capable of orally explaining the
solution that you turn in, so do not turn in something you don’t understand.